

AMENDMENTS TO THE CLAIMS

The following is a copy of Applicants' claims that identifies language being added with underlining ("____") and language being deleted with strikethrough ("~~—~~") or double brackets ("[[]]"), as is applicable:

1 – 37. (Canceled)

38. (Currently amended) A method for adapting to resource constraints of a digital home communication terminal (DHCT), said method comprising steps of:

~~providing a digital home communication terminal (DHCT), wherein said DHCT is configured to operate in a non-resource constrained mode and a plurality of resource constrained modes;~~

determining by the DHCT whether one of a the resource-constrained modes mode or a the non-resource constrained mode is to be initiated, the DHCT capable of operating in the non-resource constrained mode and a plurality of resource constrained modes;

responsive to determining that one of the resource-constrained modes is to be initiated, operating the DHCT in the determined resource-constrained mode, including:

retrieving a set of reconstructed decompressed video frames from a first portion of a memory component, wherein the memory component stores compressed video frames in a distinct second portion, wherein the set of video frames corresponds to a video picture stored in the first portion; and

transferring the set of retrieved reconstructed decompressed video frames to a display device while downscaling the video picture in transit to the display device.

39 – 52. (Canceled)

53. (Currently amended) A method for adapting to resource constraints of a digital communication terminal (DHCT), said method comprising steps of:

~~providing a digital home communication terminal (DHCT), wherein said DHCT is configured to operate in a non-resource constrained mode and a plurality of resource-constrained modes;~~

determining by the DHCT whether one of the a plurality of resource-constrained modes is to be initiated, the DHCT capable of operating in a non-resource constrained mode and the plurality of resource-constrained modes;

responsive to determining that one of the resource-constrained modes is to be initiated, initiating the resource-constrained mode, including:

retrieving, from a first portion of a memory component, a set of compressed frames;

storing, in a second and distinct portion of the memory component, a set of decoded frames corresponding to the set of compressed frames, each of the set of decoded frames being at a first spatial resolution;

retrieving, from the second and distinct portion of the memory component, the set of decoded frames; and

transferring the retrieved set of decoded frames to a display device while scaling the frames in transit to the display device to a second spatial resolution without storing the frames in the memory component, wherein the second spatial resolution is smaller than the first spatial resolution.

54. (Currently amended) A digital home communication terminal (DHCT) comprising:

a processor;

a circuit logic configured to operate the DHCT in a non-resource constrained mode and a plurality of resource-constrained modes, the circuit [[:]]

~~logic configured to determine whether one of the resource-constrained modes is to be initiated;~~

~~logic configured to, responsive to instantiation of operation in determining that the resource-constrained modes is to be initiated, initiate the resource-constrained mode, including;~~

~~logic configured in cooperation with the processor to:~~ retrieve, from a first portion of a memory component, a set of compressed frames;

~~logic configured to~~ store, in a second and distinct portion of the memory component, a set of decoded frames corresponding to the set of compressed frames, each of the set of decoded frames being at a first spatial resolution;

~~logic configured to~~ retrieve, from the memory component, the set of decoded frames; and

~~logic configured to~~ transfer the set of decoded frames to a display device while scaling the frames in transit to the display device to a second spatial resolution without storing the frames in the memory component, wherein the second spatial resolution is smaller than the first spatial resolution.

55. (Currently amended) A method for adapting to resource constraints of a digital home communication terminal (DHCT), said method comprising steps of:

~~operating the providing a digital home communication terminal (DHCT), wherein DHCT is configured to operate in either a non-resource constrained mode and or one of a plurality of resource-constrained modes, the DHCT capable of operating in the non-resource constrained mode and the plurality of resource-constrained modes;~~

receiving, in a memory component, video frames each comprising a complete picture;

determining whether one of the resource-constrained modes is to be initiated;
responsive to determining that one of the resource-constrained modes is to be initiated, initiating the resource-constrained mode, including:

retrieving the video frames from the memory component; and
transferring the retrieved video frames to a display device while
downscaling the retrieved video frames ~~picture~~ in transit to the display device.

56 - 70. (Canceled)

71. (Previously presented) The method of claim 38, further comprising:
transmitting graphics data to the display device, wherein the graphics data is displayed contemporaneously with the downscaled picture.

72. (Previously presented) The method of claim 38, wherein the downscaling comprises horizontal scaling.

73. (Previously presented) The method of claim 38, wherein the downscaling comprises vertical scaling.

74. (Previously presented) The method of claim 53, further comprising the step of:

transmitting graphics data to the display device, wherein the graphics data is displayed contemporaneously with the scaled video frames.

75. (Previously presented) The method of claim 53, wherein the scaling comprises downscaling.

76. (Previously presented) The method of claim 53, wherein the scaling comprises horizontal scaling.

77. (Previously presented) The method of claim 53, wherein the scaling comprises vertical scaling.

78. (Currently amended) The DHCT of claim 54, wherein the circuit in cooperation with the processor system is further configured to:

transmit graphics data to the display device, wherein the graphics data is displayed contemporaneously with the scaled frames.

79. (Canceled)

80. (Previously presented) The DHCT of claim 54, wherein the scaling comprises horizontal downscaling.

81. (Previously presented) The DHCT of claim 54, wherein the scaling comprises vertical downscaling.

82. (Previously presented) The method of claim 55, further comprising the step of:

transmitting graphics data to the display device, wherein the graphics data is displayed contemporaneously with the scaled video frames.

83 – 84. (Canceled)

85. (Previously presented) The method of claim 38, wherein the plurality of resource-constrained modes include a memory-constrained mode, a bus bandwidth constrained mode, and a memory and bus-bandwidth constrained mode.

86. (Previously presented) The method of claim 53, wherein the plurality of resource-constrained modes include a memory-constrained mode, a bus bandwidth constrained mode, and a memory and bus-bandwidth constrained mode.

87. (Previously presented) The DHCT of claim 54, wherein the plurality of resource-constrained modes include a memory-constrained mode, a bus bandwidth constrained mode, and a memory and bus-bandwidth constrained mode.

88. (Previously presented) The method of claim 55, wherein the plurality of resource-constrained modes include a memory-constrained mode, a bus bandwidth constrained mode, and a memory and bus-bandwidth constrained mode.

89. (New) A method, comprising:

retrieving, from a first portion of a memory component, a set of compressed frames;

storing, in a second and distinct portion of the memory component, a set of decoded frames corresponding to the set of compressed frames, each of the set of decoded frames being at a first spatial resolution;

retrieving, from the second and distinct portion of the memory component, the set of decoded frames; and

transferring the retrieved set of decoded frames to a display device while scaling the frames in transit to the display device to a second spatial resolution without storing the frames in the memory component, wherein the second spatial resolution is smaller than the first spatial resolution.